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ABSTRACT

This document contains nine research papers presented at the Joint Special Session on Research in Undergraduate Mathematics Education at the annual meeting of the American Mathematical Society and the Mathematical Association of America (San Francisco, California, January 1991). Paper titles are: "The Teaching and Learning of College Mathematics: Current Status and Future Directions" (Joanne Rossi Becker, Barbara J. Pence); "Even Good Calculus Students Can't Solve Nonroutine Problems" (John Selden, Annie Selden, Alice Mason); "Research in Calculus Learning: Understanding of Limits, Derivatives, and Integrals" (Joan Ferrini-Mundy, Karen Graham); "A Conceptual Analysis of the Proof-Writing Performance of Expert and Novice Students in Elementary Group Theory" (Eric W. Hart); "Cognitive Obstacles to the Learning of Calculus: A Kruketskiian Perspective" (F. Alexander Norman, Mary Kim Prichard); "The Role of Emotion: Expert and Novice Mathematical Problem-Solving" (Frances A. Rosamond); "Understanding How Students Acquire Concepts Underlying Sets" (Nancy Hood Baxter); "Symbiotic Effects of Collaboration, Verbalization, and Cognition in Elementary Statistics" (Martin V. Bonsangue); "Multiple Representations for Functions" (Albert A. Cuoco). Contains 368 references. (MKR)

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